

## Appendix A

### CLAIMS

(New.) 4. An apparatus for conducting a buccal dissolution test comprising:

- a) a cell;
- b) means of removing a sample from said cell such that undissolved solids are not included in said sample; and,
- c) means of analyzing said sample for substances of interest in the test.

(New.) 5. The apparatus of Claim 4 further comprising:  
a supply of a release medium that can be continuously passed into said cell.

(New.) 6. The apparatus of Claim 4 further comprising:  
means of controlling the temperature of the release medium in said cell.

(New.) 7. The apparatus of Claim 4 further comprising:  
means for transferring solid particles out of said cell.

(New.) 8. The apparatus of Claim 4 in which said solid particles are of small particles size.

(New.) 9. The apparatus of Claim 8 in which said cell has means of adding test materials.

(New.) 10. The apparatus of Claim 9 in which said cell has means of mixing the sample and release medium.

(New). 11. The apparatus of Claim 10 in which said means of analyzing the effluent can be carried out at multiple times during the operation of the test equipment.

(New). 12. A dissolution test method for use with the apparatus of Claim 4, comprising the steps of:

- a) passing a release medium through the cell;
- b) adding a test sample to said cell; and,
- d) analyzing effluent from said cell to determine a concentration of substance dissolved from the test sample.

(New). 13. The dissolution test method of claim 12 further comprising: passing release medium through said cell such that any undissolved portion of the test sample is transferred out of the cell.

(New). 14. The dissolution test method of claim 13 further comprising: removing a sample of the release medium from the cell, such that it does not contain any undissolved material.

(New). 15. The dissolution test method of claim 14 further comprising: maintaining the temperature of said cell at the desired temperature for the duration of the test.

(New). 16. A dissolution test method for use with the apparatus of Claim 4, comprising the steps of: analyzing effluent from said cell to determine a concentration of substance dissolved from the test sample.

(New). 17. The dissolution test method of claim 16 further comprising: maintaining the temperature of said cell at the desired temperature for the duration of the test.

(New). 18. The dissolution test method of claim 17 further comprising:

- a) passing a release medium through the cell;
- b) adding the test sample to said cell;
- c) passing release medium through said cell such that any undissolved portion of the test sample is transferred out of the cell; and,
- d) removing a sample of the release medium from the cell, such that it does not contain undissolved material; and, wherein further, the flow rate of release medium and volume of liquid in the cell is constant throughout the test, further provided that the flow rate of the release medium, the temperature of the release medium, the volume of liquid in the cell, and the amount of test sample are adjusted to give physiologically relevant conditions.